

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A digital camera for acquiring image data by acquiring a subject image, comprising:

an imaging device configured to acquire said subject image, and

a piezoelectric element configured to displace said imaging device,

wherein ~~an~~ at least one energy accumulating unit is configured to power a ~~strobe~~ strobe unit is used as an electric power supply source for said piezoelectric element ~~during normal operation~~.

Claim 2 (Currently Amended): The digital camera according to claim 1, wherein said energy accumulating unit includes a main capacitor for ~~strobe-strobe~~ strobe unit emission provided inside or outside, and said piezoelectric element is charged by the energy accumulated in said main capacitor.

Claim 3 (Currently Amended): A digital camera capable of acquiring an image by shifting pixels, comprising:

an imaging device configured to capture a subject image,

a piezoelectric element configured to displace said imaging device,

a switching unit configured to charge said piezoelectric element by the energy accumulated in a at least one main capacitor for ~~strobe-strobe~~ strobe unit emission provided inside or outside or to discharge said piezoelectric element ~~during normal operation~~, and

a control unit configured to control said switching unit for controlling the charging and discharging sequence of said piezoelectric element,

wherein said control unit controls capturing a first image by charging said piezoelectric element in a state of displacing said imaging device, and capturing a second image by discharging said piezoelectric element in a state before displacement of said imaging device.

Claim 4 (Currently Amended): A digital camera capable of acquiring an image by shifting pixels, comprising:

an imaging device configured to acquire a subject image,
a piezoelectric element configured to displace said imaging device,
a switching unit configured to charge said piezoelectric element by the energy accumulated in a at least one main capacitor for ~~strobe~~-strobe unit emission provided inside or outside or to discharge said piezoelectric element ~~during normal operation~~, and
a control unit configured to control said switching unit for controlling a charging and discharging sequence of said piezoelectric element,

wherein said switching unit includes a charge adjusting circuit for stopping the charging operation when the charged voltage in said piezoelectric element becomes a specified value to hold the charged voltage, and

restarting charging when the charged voltage in said piezoelectric element becomes lower than a specified value, and said control unit is configured to control acquiring a first image by charging said piezoelectric element in a state of displacing said imaging device, and capturing a second image by discharging said piezoelectric element in a state before displacement of said imaging device.

Claim 5 (Currently Amended): A digital camera capable of acquiring an image by shifting pixels, comprising:

an imaging device configured to capture a subject image,
a piezoelectric element configured to displace said imaging device,
a switching unit configured to charge said piezoelectric element by the energy accumulated in a at least one main capacitor for ~~strobe~~-strobe unit emission provided inside or outside or to discharge said piezoelectric element ~~during normal operation~~, and

a control unit configured to control said switching unit for controlling a charging and discharging sequence of said piezoelectric element,

wherein said switching unit includes a charging switch circuit for turning on or off charging of said piezoelectric element, a discharging switch circuit for turning on or off discharging of said piezoelectric element, a detecting circuit for detecting the charged voltage in said piezoelectric element, and comparing circuit for comparing the charged voltage in said piezoelectric element detected by said detecting circuit and a reference voltage, said charging switch circuit turns on or off charging of said piezoelectric element on the basis of the result of comparison by said comparing circuit, and said control unit is configured to control acquiring a first image by charging said piezoelectric element in a state of displacing said imaging device, and take a second image by discharging said piezoelectric element in a state before displacement of said imaging device.

Claim 6 (Currently Amended): A digital camera capable of taking an image by shifting pixels, comprising:

an imaging device configured to capture a subject image,
a piezoelectric element configured to displace said imaging device,
a switching unit configured to charge said piezoelectric element by the energy accumulated in a at least one main capacitor for ~~strobe~~-strobe unit emission provided inside or outside or to discharge said piezoelectric element ~~during normal operation~~, and

a control unit configured to control said switching unit for controlling a charging and discharging sequence of said piezoelectric element,

wherein said control unit is configured to stop the charging operation when said piezoelectric element reaches a specified voltage, and to acquire a first image by charging said piezoelectric element in a state of displacing said imaging device, and to acquire a second image by discharging said piezoelectric element in a state before displacement of said imaging device.

Claim 7 (Currently Amended): A digital camera capable of acquiring an image by shifting pixels, comprising:

an imaging device configured to acquire a subject image,

a piezoelectric element configured to displace said imaging device,

a switching unit configured to charge said piezoelectric element by the energy accumulated in a at least one main capacitor for ~~strobe-strobe~~ unit emission provided inside or outside or to discharge said piezoelectric element ~~during normal operation~~, and

a control unit configured to control said switching unit for controlling a charging and discharging sequence of said piezoelectric element, and also to stop the charging when said piezoelectric element reaches a specified voltage,

wherein said switching unit includes a charging switch circuit for turning on or off charging of said piezoelectric element, a discharging switch circuit for turning on or off discharging of said piezoelectric element, and a detecting circuit for detecting the charged voltage in said piezoelectric element, and said control unit is configured to control turning on or off said charging switch circuit based on the detected voltage of the detecting circuit, and to acquire a first image by charging said piezoelectric element in a state of displacing said

imaging device, and to acquire a second image by discharging said piezoelectric element in a state before displacement of said imaging device.

Claim 8 (Currently Amended): A digital camera capable of acquiring an image by shifting pixels, comprising:

an imaging device configured to acquire a subject image,

a piezoelectric element configured to displace said imaging device,

a switching unit configured to charge said piezoelectric element by the energy accumulated in a at least one main capacitor for ~~strobe-strobe~~ unit emission provided inside or outside or to discharge said piezoelectric element ~~during normal operation~~, and

a control unit configured to control said switching unit for controlling a charging and discharging sequence of said piezoelectric element,

wherein said control unit is configured to control acquiring a first image in a state not displacing said imaging device, and to acquire a second image by charging said piezoelectric element in a state of displacing said imaging device.

Claim 9 (Currently Amended): A digital camera capable of acquiring an image by shifting pixels, comprising:

an imaging device configured to acquire a subject image,

a piezoelectric element configured to displace said imaging device,

a switching unit configured to charge said piezoelectric element by the energy accumulated in a at least one main capacitor for ~~strobe-strobe~~ unit emission provided inside or outside or to discharge said piezoelectric element, and

a control unit configured to control said switching unit for controlling a charging and discharging sequence of said piezoelectric element,

wherein said switching unit includes a charge adjusting circuit for stopping the charging operation when the charged voltage in said piezoelectric element becomes a first specified value to hold the charged voltage, and for restarting charging when the charged voltage in said piezoelectric element becomes lower than a second specified value, and said control unit is configured to control acquiring a first image in a state not displacing said imaging device, and to acquire a second image by charging said piezoelectric element in a state of displacing said imaging device.

Claim 10 (Currently Amended): A digital camera capable of acquiring an image by shifting pixels, comprising:

an imaging device configured to acquire a subject image,
a piezoelectric element configured to displace said imaging device,
a switching unit configured to discharge said piezoelectric element by the energy accumulated in a at least one main capacitor for ~~strobe-strobe~~ unit emission provided inside or outside or to discharge said piezoelectric element ~~during normal operation~~, and
a control unit configured to control said switching unit for controlling a charging and discharging sequence of said piezoelectric element,

wherein said switching unit includes a charging switch circuit for turning on or off charging of said piezoelectric element, a discharging switch circuit for turning on or off discharging of said piezoelectric element, a detecting circuit for detecting the charged voltage in said piezoelectric element, and a comparing circuit for comparing the charged voltage in said piezoelectric element detected by said detecting circuit and a reference voltage,

wherein said charging switch circuit turns on or off charging of said piezoelectric element on based on the comparison by said comparing circuit, and said control unit is configured to control acquiring a first image in a state not displacing said imaging device, and

acquiring a second image by charging said piezoelectric element in a state of displacing said imaging device.

Claim 11 (Currently Amended): A digital camera capable of acquiring an image by shifting pixels, comprising:

an imaging device configured to acquire a subject image,
a piezoelectric element configured to displace said imaging device,
a switching unit configured to charge said piezoelectric element by the energy accumulated in a at least one main capacitor for ~~strobe-strobe~~ unit emission provided inside or outside, or to discharge said piezoelectric element ~~during normal operation~~, and
a control unit configured to control said switching unit for controlling a charging and discharging sequence of said piezoelectric element,
wherein said control unit is configured to control stopping the charging when said piezoelectric element reaches a specified voltage, and to acquire a first image in a state not displacing said imaging device, and to acquire a second image by charging said piezoelectric element in a state of displacing said imaging device.

Claim 12 (Currently Amended): A digital camera capable of taking an image by shifting pixels, comprising:

an imaging device configured to acquire a subject image,
a piezoelectric element configured to displace said imaging device,
a switching unit configured to charge said piezoelectric element by the energy accumulated in a at least one main capacitor for ~~strobe-strobe~~ unit emission provided inside or outside or to discharge said piezoelectric element ~~during normal operation~~, and

a control unit configured to control said switching unit for controlling charging and discharging sequence of said piezoelectric element, and also to stop the charging when said piezoelectric element reaches a specified voltage,

wherein said switching unit includes a charging switch circuit for turning on or off charging of said piezoelectric element, a discharging switch circuit for turning on or off discharging of said piezoelectric element, and a detecting circuit for detecting the charged voltage in said piezoelectric element, and said control unit is configured to control turning on or off said charging switch circuit based on the detected voltage of the detecting circuit, and to acquire a first image in a state not displacing said imaging device, and to acquire a second image by charging said piezoelectric element in a state of displacing said imaging device.